PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room

CP2/5C24 Arlington, VA 22202

Arrington, VA 22202
ETATS LINKS D'AMERIO

Date of mailing (day/month/year) 11 April 2001 (11.04.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/SK00/00010	Applicant's or agent's file reference
International filing date (day/month/year)	Priority date (day/month/year)
23 June 2000 (23.06.00)	17 August 1999 (17.08.99)
Applicant	
KELLYÉR, Juraj	

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	23 February 2001 (23.02.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Antonia Muller

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



From line * INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KOVACIK, Stefan Jasovska 13/15 851 07 Bratislava REPUBLIQUE SLOVAQUE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)

19.11.2001

Applicant's or agent's file reference

International filing date (day/month/yeer)

Priority date *(day/month/year)* 17/08/1999

IMPORTANT NOTIFICATION

23/06/2000

Applicant

KELLYÈR, JURAJ

PCT/SK00/00010

International application No.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEN

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Fax: +49 89 2399 - 4465

Authorized officer

Schalinalus, D

Tel.+49 89 2399-8242



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SK00/00010

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4.	The	amendments have	e resulled in the car	ncellation of:			
		the description.	pages:				
		the claims,	Nos.:				
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Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following document/s/:
 - D1: EP-A-0 602 943 (SONY CORPORATION) 22 June 1994 (1994-06-22)
- Document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and insofar as this claim can be understood (see Section VIII), this document shows the following features thereof (the references in parentheses applying to this document):
 - a method for recording, reproducing ... (see Abstract) digital, connected audio and/or video records (cf. Fig. 1A), with a synchronization of ... audio and video recording by the [reference] time of the recording where this ... time of recording serves as the synchronising element for at least one recording sample during its reproduction (see Fig. 10 A).

The subject-matter of claim 1 therefore differs from this known method in that the "real time" of the recording is used in some way whereas D1 applies "reference time data". However, it is unclear whether there is any technical significance in this difference. It should be evident to a skilled person that any reference time can be used for the synchronization of different records. Moreover, D1 already talks about "time stamps" for audio and video data packets.

- Thus, in its present vague formulation, the subject-matter of claim 1 is obvious from D1.
- Ø Dependent claims 2-4 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

The significance of the features of dependent claims 2-3 is unclear. They appear to relate to circumstances only without clear technical limitations.

Re Item VIII

2C

Certain observations on the international application

The claims are formulated in vague and broad terms leaving the reader in doubt as to the meaning of the <u>technical</u> feature to which they refer, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT). This particularly applies to:

"real time" (The claim lacks a definition of this expression, which is essential for the present invention. It should rather be a signal or data indicating a certain time e.g. the local time)

"... recordings are <u>locally / functionally</u> independent" (too vague since it is not clear whether this relates to the recordings on the recording carrier or to any other technical feature)



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	s or ag	ent's file reference	FOR FURTHER A	CTION		ation of Transmittal of International	
			PON FUNTHER A	CHON	Preliminary	Examination Report (Form PCT/IPEA/4	·16)
Internation	al app	lication No.	International filing date	(day/month/)	year)	Priority date (day/month/year)	
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Internation H04N5/§		ent Classification (IPC) or na	ational classification and IP	С			
Applicant							•••
KELLYÈ	R, J	JRAJ					· · · · · · · · · · · · · · · · · · ·
		ational preliminary exam smitted to the applicant a		prepared	by this Inte	rnational Preliminary Examining Au	thority
2. This	REPO	ORT consists of a total of	f 6 sheets, including thi	s cover she	et.		
t (see F	eport is also accompanie amended and are the ba- cule 70.16 and Section 6 exes consist of a total of	sis for this report and/or 07 of the Administrative	sheets co	ntaining re	n, claims and/or drawings which hav ctifications made before this Author e PCT).	ve ity
3. This	report	contains indications rela	ating to the following ite	ns:			
1	\boxtimes	Basis of the report					
II		Priority					
Ш		Non-establishment of c	ppinion with regard to no	velty, inve	ntive step a	and industrial applicability	
IV		Lack of unity of invention	on				
V	⊠		nder Article 35(2) with roons suporting such state		ovelty, inve	ntive step or industrial applicability;	
VI		Certain documents cite	ed				
VII	\boxtimes	Certain defects in the in	nternational application				
VIII	Ø	Certain observations or	n the international appli	cation			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SK00/00010

I.	Bas	is o	f the	report
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1.	the an	receiving Office in	ments of the international appli response to an invitation under to this report since they do not d	r Article 14 are	referred to in this re	port as "originally filed"
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	Cla	ims, No.:				
	1-4		as received on	08/10/2001	with letter of	08/10/2001
	Dra	awings, sheets:				
	1-6		as received on	08/10/2001	with letter of	08/10/2001
2.	Wit lan	h regard to the lang guage in which the i	uage, all the elements marked nternational application was file	above were a ed, unless othe	vailable or furnished erwise indicated unde	to this Authority in the er this item.
	The	ese elements were a	vailable or furnished to this Au	thority in the fo	ollowing language:	, which is:
		the language of a t	ranslation furnished for the pur	poses of the in	nternational search (ı	under Rule 23.1(b)).
		the language of pu	blication of the international ap	plication (unde	er Rule 48.3(b)).	
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4.	The	amendments have	resulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SK00/00010

		the drawings,	sheets:
5.			established as if (some of) the amendments had not been made, since they have been rond the disclosure as filed (Rule 70.2(c)):
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this
6.	Add	itional observations, if	f necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-4

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-4

Industrial applicability (IA) Yes: Claims 1-4

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following document/s/:
 - D1: EP-A-0 602 943 (SONY CORPORATION) 22 June 1994 (1994-06-22)
- 2. Document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and insofar as this claim can be understood (see Section VIII), this document shows the following features thereof (the references in parentheses applying to this document):
- a method for recording, reproducing ... (see Abstract) digital, connected audio and/or video records (cf. Fig. 1A), with a synchronization of ... audio and video recording by the [reference] time of the recording where this ... time of recording serves as the synchronising element for at least one recording sample during its reproduction (see Fig. 10 A).

The subject-matter of claim 1 therefore differs from this known method in that the "real time" of the recording is used in some way whereas D1 applies "reference time data". However, it is unclear whether there is any technical significance in this difference. It should be evident to a skilled person that any reference time can be used for the synchronization of different records. Moreover, D1 already talks about "time stamps" for audio and video data packets.

Thus, in its present vague formulation, the subject-matter of claim 1 is obvious from D1.

3. Dependent claims 2-4 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

The significance of the features of dependent claims 2-3 is unclear. They appear to relate to circumstances only without clear technical limitations.

EXAMINATION REPORT - SEPARATE SHEET

The additional feature of claim 4 appears to be anticipated by the "time stamps" according to D1, see e.g. column 12.

4. The applicant argued that the essence of the alleged invention is the recording of a real time signal together with another type of recording, for instance audio and video recording. The "real time" in the light of the present specification is a signal or data including the local time of the recording. In D1, a reference time stamp serves for the required synchronization of different types of records such as audio and video. This time stamp is a data indicating a certain point in time. It is not the "real time". The feature that the "real time" is used for the synchronization is not disclosed by D1.

However, the present formulation of claim 1 lacks a definition of the expression "real time" and thus, no special limiting effect can be attributed to the present unclear formulation. Consequently, a lack of inventive step occurs.

A clarification of the expression "real-time" might help to overcome the above objection. On the other hand it must be noted that the time stamps according to D1 in a certain way also represent real time. Although they do not explicitly formulate the time at the location of recording they are in a different format also representative for this time. Therefore, also in a clarified version it is not sure whether the claim would meet the requirements of the PCT with respect to inventive step.

5. For the assessment of the present claims 1-4 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. However, due to the technical field of the present claims no reason is apparent that the claimed subject-matter should not be industrially applicable.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

INTERNATIONAL PRELIMINARY

International application No. PCT/SK00/00010

EXAMINATION REPORT - SEPARATE SHEET

Re Item VIII

Certain observations on the international application

The claims are formulated in vague and broad terms leaving the reader in doubt as to the meaning of the technical feature to which they refer, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT). This particularly applies to:

"real time" (The claim lacks a definition of this expression, which is essential for the present invention. It should rather be a signal or data indicating a certain time e.g. the local time)

"... recordings are locally / functionally independent" (too vague since it is not clear whether this relates to the recordings on the recording carrier or to any other technical feature)

Form PCT/Separate Sheet/409 (Sheet 3) (EPO-April 1997)

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(74) Agent: KOVÁCIK, Stefan; Patent, Trade Mark Agent, Jasovská 13/15, 851 07 Bratislava (SK).

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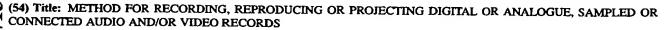
Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.







1

Method for Recording, Reproducing or Projecting Digital or Analogue, Sampled or Connected Audio and/or Video Records

Field of the Invention

The invention relates to recording, reproducing, or projecting digital or analogue, sampled or connected audio and/or video recordings and is characterised by the unique matching of sound with image recordings or of at least two sound or two image records respectively. The invention can be utilised in filmmaking, security, commercial, professional and closed circuit television technology and, primarily, in video technology. Thus, the invention generally relates to recording and reproduction or projection audio and video technology.

Prior Art

At present, analogue VCRs are used on a limited scale in special security or monitoring systems to record image and sound information on continual medium. This automatically matches an image sample with the respective sound sample.

Sampled recording by analogue VCRs only records image information. Recording sound associated with sampled images remains unresolved. Therefore, sound is either not recorded at all or is recorded separately and as such does not lend itself to synchronisation with respective image recordings. Digital VCRs are successfully used in professional filmmaking technology as well as in security and other control systems. Digital VCRs record image information only in the connected continuous recording mode together with sound. Sound and image information is typically recorded on the same recording medium such as HDD (hard disk). Image and sound are synchronised, which is mostly related to the start of recording. However, in the sampling recording mode digital video recorders do not enable to match continuously recorded sound to respective images.

Lastly, in conventional filmmaking technology image and sound are only acoustically synchronised at the beginning using slapstick.

As no method is currently available for applying sound to a separate image recording and as some recording systems are yet to resolve synchronisation of sound and image or of at least two image and two sound recordings respectively, the need has arisen to deal with the problem, ultimately leading to the present invention.

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Substance of the Invention

The method for recording, reproducing or projecting digital or analogue, sampled or connected audio and/or video recordings in accordance with the invention to large extent eliminates the above deficiencies. The substance of the invention is in synchronising at least one audio and one video recording or an audio and audio recording or a video and video recording by means of the real time of recording where, in respect of at least one sample, the real time of recording serves as the synchronising element for reproduction or projection.

The possibilities offered by the above method are further enhanced by the fact that synchronised audio and/or video recordings are locally independent. This means that in a closed or open local system it is possible, within a selected real time interval of a sound recording, to match corresponding image samples from any other closed or open local interior or exterior system.

Another significant feature of an alternative embodiment of the method in accordance with the invention is the option of functional independence of synchronised audio and video recordings. This feature can primarily be utilised when the duration of playback or projection of a sound and image recording differ, including a playback or projection failure.

Lastly, another significant feature of the method in accordance with the invention is the assignment of an identification code to dependent or independent matched audio and video recordings.

The benefits of the method for the playback or projection of digital or analogue sampled or connected audio and/or video recordings consist in the unique matching of image samples and selected sound samples or of at least two image or sound samples respectively. Real time is the moment of a given recording, which is unique and uniquely associated with a given moment and recorded as such during the recording of the audio and video signal. The notion of 'real time' implies a moment of time complete with information about the year, month, hour, minute, second and fractions thereof. Real time is not an information value but a control element (a signal). The method in accordance with the invention solves in a fairly simple fashion the problem of image and sound synchronisation by controlling playback and projection by means of real time rather than by the start of the recording as in conventional systems. For the purposes of this invention: The notion of 'recording as an activity implies the recording (REC) of image and sound to any recording medium such as magnetic tape and disk, optical disk, hard disk, film tape or a semiconductor chip or other recording media; the notion of 'recording' as an object implies the outcome of recording, i.e. the recording medium already storing image and/or sound information; the notion of 'reproduction' as an activity implies the playing back of recorded image or sound information after it was recorded or the subsequent processing of such information. In sound technology, for example, this relates to the playback of a recorded acoustic signal using reproduction equipment. The same applies to image technology (with the exception of conventional film technology). With regard to conventional film technology, where the recording medium for image and sound information is represented by conventional film tape, with film tape recording image and a separate magnetic tape recording sound, the relevant notion is called 'projection' and is used for the playback of image

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signals using specialised reproduction equipment (a film projector). The benefit of the method in accordance with the invention is its simple implementation in digital systems by means of software. In analogue video and television systems, the method can be implemented either entirely or in part by software as well as hardware. In conventional filmmaking technology, the method can only be implemented by means of hardware that inserts time markings in between images, for example, in the form of bar codes, or by using part of the track to record a time value. The method can be beneficially used in sampled recordings, particularly in security systems; however, it can certainly be applied to connected audio and video recordings. Another major advantage consists in easy sound and image synchronisation when a part of data from either the audio or video recording is missing or lost, enabling to continue viewing images. If, for example, the capacity of a recording medium such as one used to record sound is exhausted and the operator does not insert another medium until after a delay, the proposed solution will not require a special start but images will be launched during playback (reproduction) when the sound time mark matches the time mark of the respective image etc. Under the proposed method, images from another recording with a different real time feature will not be launched during playback, as the respective day and time are unique and nonrecurrent. The only condition is the matching of the system (real) time of the audio and video systems during recording. As image and sound synchronisation is secured by real time, a selected audio signal can be associated with one or several video recordings, even those that are locally independent. The advantage of the method consists in its versatility as it can be primarily applied in video systems that separately record sound and image. The method, however, can also be used in filmmaking technology (i.e. applied to conventional film) and television technology. An advantage useful in special applications, for example in systems comprising several cameras and several microphones, is the assignment of an identification code to audio and video channel recordings (signals) where an audio recording is matched to the respective pair of video recordings so as to make the playback of several recordings transparent and unequivocal. The method also enables intermittent image recording while sound is recorded continuously. It is maintained that the method in accordance with the invention enables to synchronise an unlimited number of audio and video recordings, including those made at different locations commencing at a different moment in time that is associated with a particular event, i.e. the launching of the recording is not time-dependent and is synchronised during playback as the real time of the recordings match. The recording of any event can be interrupted (for example during scenes not deemed to deserve recording) and restarted later. During playback, the recording will be started again in a synchronised mode as the recorded real time markings are matched.

The method in accordance with the invention can also be used as a monitoring system in government and private businesses.

Embodiments of the Invention

Embodiment 1

This example describes the recording and playback of a single digital sampled audio and video recording by a digital video recorder with a single CCD camera, microphone and monitor. This mode is particularly useful for security or control systems. Image records are sampled at a rate

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of one image a minute, with the image record capturing real time information. Sound is recorded in a connected continuous fashion, also capturing real time information. To reproduce image and sound, i.e. to play back the recording, e.g. in order to examine it, the real time of the audio recording selected by the operator serves as the synchronisation signal. Supposing the operator chooses the real time interval from 1999-07-10 18:32:24 to 1999-07-10 18:50:00, then for a selected real time moment during the playback of the required connected sound recording the monitor will gradually display a sequence of 18 images of the monitored space from the selected time interval and associated with replayed sound.

Embodiment 2

This example describes another mode of recording and playback of a sampled audio and video recording made using a digital recording system with a single CCD or CMOS camera featuring a motion detection function and a microphone. This mode is particularly appropriate in security and surveillance systems. Sound is recorded in a connected (continuous) fashion, as it does not require excessive recording medium capacity. Image is sampled every tenth second or continuously on detecting motion. In this instance, the real time of the audio recording serves as the synchronisation element during playback. In other words, while replaying a time interval, the operator listens to sounds in the surveyed area (such as a conversation between two and more people who remain static). On making a motion, the persons automatically activate the motion detection function and the system continuously records the image, enabling the operator to view an image (moving persons) while continuing to monitor sounds. After the persons become static, the system reverts to sampling at a rate of one image every ten seconds, while the sound continues to be recorded uninterrupted.

Embodiment 3

This example is derived from Embodiment 2, however, the motion detection function can be replaced by the system operator switching on continuous recording, image being sampled every two seconds and sound recorded in a connected fashion. For example, if a security officer responsible for a secured area views on screen and listens to what goes on in the secured area, the officer has the option of activating continuous image recording to capture in detail the action in a given time interval. During playback, sound is reproduced continuously and image is sampled. Starting at the moment when the officer activated continuous image recording, image is also displayed continuously after which it is sampled again. Sound invariably remains continuous. The advantage is that images, be it sampled or continuously recorded, are synchronised with sound during playback, as an image/images is/are displayed at the moments when recorded real time of image matches the recorded real time of sound.

Embodiment 4

This example describes an alternative way of recording and playing back several digital locally dependent connected audio and video recordings. In particular, this mode can be used in the film industry, during filmmaking and to create film effects. For example, a unique non-recurring scene is being filmed by four cameras from four angles, recording image and sound and capturing real time. During editing at a later stage, the real time of audio and/or video

recordings serves as the synchronising element, enabling the selection of image and its association with, for example, non-matching sound with identical real time, for example when an image is selected with a different angle of image or sound recording.

Embodiment 5

This example describes an alternative way of recording and playing back several locally independent digital audio and video recordings. This version is derived from Embodiment 1. Here, the security system has been enhanced, for example by a set of 10 cameras. Sound is recorded by an independent system with six armed microphones built into the monitored nodes of the secured facility. Thus, theses systems and their audio and video recordings are functionally independent. Monitoring or examining audio and video recordings enables to survey, by choosing the respective real time of recording, the secured nodes of the facility. A local sound signal with a selected real time can be associated with an image or several images with the same real time but recorded at different locations; it is possible to switch between these images, as all recordings can be played back in a synchronised fashion synchronised using their real time.

Embodiment 6

This example describes a way of recording and playing back several independent sampled analogue audio and video recordings in closed circuit television systems. In substance, the method is derived from one in Embodiment 5 and adjusted to suit the needs of closed circuit television transmission. Furthermore, the method enables to match audio and video recordings designated using identification codes. The apparent benefit is that the method in accordance with the invention can be implemented in existing closed circuit television networks by means of simple software or hardware modifications.

Embodiment 7

This example describes a way of recording and projecting analogous connected audio and video recordings in conventional filmmaking technology, where image and sound are optically recorded on conventional film tape. Here, the method in accordance with the invention can be applied, for example by recording, such as by means of bar code or other means, real time information onto film tape in between images or onto the marginal segments of the recording medium, enabling unique matching of image and sound (if recorded separately) or of several image signals.

Industrial Applications

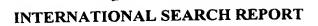
The method of recording, playing back or projecting digital or analogue sampled or connected audio and/or video recordings in accordance with the present invention can be generally applied in every recording and reproduction audio and video system and projection technology.

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CLAIMS

- 1. Method for recording, reproducing or projecting digital or analogue, sampled or connected audio and/or video records characterised by the synchronisation of at least one audio and video or audio and audio or video and video recording by the real time of the recording where the real time of recording serves as the synchronising element for at least one recording sample during its reproduction.
- 2. Method for recording, reproducing or projecting digital or analogue, sampled or connected audio and/or video records in accordance with Claim 1 characterised by the fact that synchronised audio and/or video recordings are locally independent.
- 3. Method for recording, reproducing or projecting digital or analogue, sampled or connected audio and/or video records in accordance with Claim 1 characterised by the fact that synchronised audio and/or video recordings are functionally independent.
- 4. Method for recording, reproducing or projecting digital or analogue, sampled or connected audio and/or video records in accordance with Claim 1 characterised by the fact that dependent or independent matched audio and/or video recordings are assigned an identification code.



triternati Application No PCT/SK 00/00010

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04N5/92		
According to	to International Patent Classification (IPC) or to both national classific	cation and IPC	
B. FIELDS	SEARCHED		·
	ocumentation searched (classification system followed by classificat	ion symbols)	
IPC 7	H04N	· · · · · · · · · · · · · · · · · · ·	
Documenta	ation searched other than minimum documentation to the extent that	such documents are included in the fields eea	crched
Electronic o	data base consulted during the international search (name of data be	ase and, where practical, search terms used)	
	aternal		
C. DOCUM	IENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
A	EP 0 602 943 A (SONY CORPORATION 22 June 1994 (1994-06-22) the whole document)	1,4
Fur	rther documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.
	eategories of cited documents:	X Patent Rainly Household and account	ii dibroa.
		"T" later document published after the inter or priority date and not in conflict with t	national filing date he application but
	nent defining the general state of the art which is not idered to be of particular relevance	cited to understand the principle or the invention	ory underlying the
'E' earlier	document but published on or after the international	"X" document of particular relevance; the cl	
"L" docum	date nent which may throw doubts on priority claim(s) or	cannot be considered novel or cannot involve an inventive step when the doc	
which	h is cited to establish the publication date of another on or other special reason (as specified)	"Y" document of particular relevance; the cl cannot be considered to involve an inv	
"O" docum	ment referring to an oral disclosure, use, exhibition or	document is combined with one or more ments, such combination being obvious	re other such docu-
"P" docum	r means ment published prior to the international filing date but than the priority date claimed	in the art. "&" document member of the same patent f	
Date of the	e actual completion of the international search	Date of mailing of the international sea	rch report
	25 September 2000	02/10/2000	
Name and	d mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Verleye, J	

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Internati Application No
PCT/SK 00/00010

Patent document ted in search report	Publication date	Patent family member(s)	Publication date
P 602943 A	22-06-1994	JP 6237437 A AT 173370 T AU 671317 B AU 5238793 A CN 1092197 A DE 69322060 D DE 69322060 T ES 2123035 T	23-08-1994 15-11-1998 22-08-1996 30-06-1994 14-09-1994 17-12-1998 06-05-1999 01-01-1999 26-03-1996
		US 5502573 A	



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/SK 00/00010	23/06/2000	17/08/1999
Applicant KELLY R, JURAJ		
This International Search Report has be according to Article 18. A copy is being	een prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consist X It is also accompanied	sts of a total of2 sheets. by a copy of each prior art document cited in this	s report.
1. Basis of the report		
 With regard to the language, t language in which it was filed, 	he international search was carried out on the ba unless otherwise indicated under this item.	sis of the international application in the
the international search Authority (Rule 23.1(b)	n was carried out on the basis of a translation of	the international application furnished to this
b. With regard to any nucleotide	and/or amino acid sequence disclosed in the it	nternational application, the international search
was carried out on the basis of	the sequence listing : ational application in written form.	
	nternational application in computer readable for	m.
	to this Authority in written form.	
<u> </u>	to this Authority in computer readble form.	
the statement that the	subsequently furnished written sequence listing on as filed has been furnished.	does not go beyond the disclosure in the
		is identical to the written sequence listing has been
2. Certain claims were f	ound unsearchable (See Box I).	
3. Unity of Invention is	acking (see Box II).	
4. With regard to the title,		
the text is approved as	submitted by the applicant.	
the text has been estal	plished by this Authority to read as follows:	•
5. With regard to the abstract,		
	submitted by the applicant.	
	blished, according to Rule 38.2(b), by this Author the date of mailing of this international search re	
	ublished with the abstract is Figure No.	
as suggested by the at	·	None of the figures.
= :	failed to suggest a figure.	
because this figure bet	ter characterizes the invention.	

INTERNATIONAL SEARCH REPORT

Into nal Application No PCT/SK 00/00010

A. CLASSI IPC7	FICATION OF SUBJECT MATTER H04N5/92		
	44		
	o International Patent Classification (IPC) or to both national classifi	cation and IPC	
	SEARCHED ocumentation searched (classification system followed by classification)	tion symbols)	
IPC 7	HO4N		
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields so	earched
Electronic d	lata base consulted during the international search (name of data b	ase and, where practical, search terms used	1)
EPO-In	ternal		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
A	EP 0 602 943 A (SONY CORPORATION 22 June 1994 (1994-06-22) the whole document	1)	1,4
		Retart family members are listed	in annex
	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.
"A" docum: consider the search of the search	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the document of particular relevance; the document is combined with one or ments, such combined with one or ments, such combination being obvious the art. "&" document member of the same patent.	n the application but learny underlying the claimed invention at be considered to occument is taken alone claimed invention invention the step when the ore other such docupus to a person skilled
	actual completion of the international search	Date of mailing of the international se 02/10/2000	arch report
	25 September 2000 mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Verleye, J	

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No PCT/SK 00/00010

Patent document cited in search repo	rt	Publication date		Patent family member(s)	Publication date
EP 602943	A	22-06-1994	JP AT AU CN DE DE ES US	6237437 A 173370 T 671317 B 5238793 A 1092197 A 69322060 D 69322060 T 2123035 T 5502573 A	23-08-1994 15-11-1998 22-08-1996 30-06-1994 14-09-1994 17-12-1998 06-05-1999 01-01-1999 26-03-1996